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Department of Energy

Richland Field Office

P.O. Box 550

Richland, Washington 99352

0026512

9302100

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FEB 16 1993

Mr. Paul T. Day
Hanford Project Manager
U.S. Environmental Protection Agency
Region 10
712 Swift Boulevard, Suite 5
Richland, Washington 99352



Mr. David B. Jansen, P.E.
Hanford Project Manager
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 99504-7600

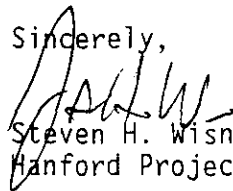
Dear Messrs. Day and Jansen:

GROUT STATUS REPORT FOR STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

Enclosed is the monthly Grout Status Report on the Hanford Grout Disposal Program for the month of November 1992.

Please direct any questions that you may have to Ms. Lori Huffman of the Disposal Division on (509) 376-0104.

Sincerely,


Steven H. Wisness
Hanford Project Manager

DSD:RC
Enclosure

cc :

J. Witzack, Ecology
D. Duncan, EPA
J. L. Epstein, WHC
G. H. Williamson, WHC
B. A. Austin, WHC
D. W. Lindsey, WHC

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GROUT REPORT
FOR
NOVEMBER 1992

EXECUTIVE SUMMARY

The Hanford Grout Disposal Program (HGDP) is currently planning toward an October 1993 Grout Facilities restart. Efforts associated with completion and approval of the Performance Assessment (PA), Final Safety Analysis Report (FSAR), Grout Issue Paper recommendations/decisions, Grout Facilities physical upgrades/modifications, Operational Readiness Review (ORR), transfer of waste from 106-AN to 102-AP, and the finalization of grout formulation are major activities in support of the final disposal and solidification of the first one million gallons from Hanford's double-shell tanks (partial M-01-01A).

The Tri-Party Agreement (TPA) change request, which was submitted to the regulators in September 1992, has been denied by Washington Department of Ecology (Ecology) and the Environmental Protection Agency (EPA). The regulators denied the change request due to untimely submittal of change package to regulators and mitigating technical discussions of the change request. On November 6, 1992 the U. S. Department of Energy - Richland Field Office (RL) invoked its rights under the disputes provisions of the Tri-Party Agreement.

The Fiscal Year (FY) 1994 Activity Data Sheets (ADS) have been updated consistent with the U. S. Department of Energy - Headquarters (HQ) guidance.

Project B-714, construction work of waste disposal vaults 102-105, will be completed and accepted by December 31, 1992. This is a significant accomplishment.

Initial ground clearing/excavation activities began November 25, 1992 for vaults 106-109. (M-01-02A, Initiate Construction of Vaults 106-109) It should be noted that the TPA change request, requested deferral of this milestone due to technical uncertainties outlined in Final Grout Issue Paper which surrounds this disposal action. Resources required to continue vault construction activities are being pursued.

PERFORMANCE ASSESSMENT (PA)

All sensitivity cases for grout vault performance were completed using a computer modeling code. Westinghouse Hanford Company (WHC) is experiencing difficulty in obtaining consensus within the PA Steering Group on the "best estimate" case.

FINAL SAFETY ANALYSIS REPORT (FSAR)

The updated FSAR has been transmitted from WHC to RL. RL will transmit the FSAR to HQ for their review and subsequent approval.

FINAL GROUT ISSUE PAPER

The Final Grout Issue Paper was submitted to Tank Waste Remediation System (TWRS) Leadership Council.

A briefing was held with L. Duffy, HQ on December 10, 1992 on proceeding with Grout as a disposal action.

GROUT PROCESSING FACILITY UPGRADES

WHC Grout Operations and Maintenance organizations are focusing on priority 2 work packages. (These are from the WHC Job Control System which are prestartup items). 17 packages have been completed since October 1992.

OPERATIONAL READINESS REVIEW (ORR)

Grout Facilities ORR approach will be changed to be consistent with WHC policy and other Hanford facilities (242-A Evaporator, UO3, and Plutonium Finishing Plant).

GROUT FORMULATION

Activities associated with formulation/characterization of waste feed is being impacted by tank 106-AN waste staging. The waste transfer is currently on hold due to maintenance problems associated with transfer equipment.

W-125, VAULT 106-109

Excavation activities began on November 25, 1992 and are continuing. KEH issued a contract to a local contractor to perform this excavation work. Excavation activities are being conducted in accordance with approved excavation drawings. Additional resources have been requested to support the bid and award process for a fixed price contractor to complete excavation and placement of the base of diffusion barrier.

This milestone was previously recommended to be deferred in the grout TPA change request (M-01-92-01A). The recommendation is mainly based on the inability to utilize vaults 106-109 because of the PA delay and the potential impacts from the petition before Nuclear Regulatory Commission (NRC) on grout.

PROCEDURE DEVELOPMENT

Over 750 procedures must be developed, rewritten, or revised and approved prior to facility restart. Efforts are underway to consolidate some of these procedures. Development of Administrative, Plant Operating, Maintenance, and Technical are on schedule towards meeting an October 1993 restart. Calibration procedures are currently behind schedule. No impact to facility restart is anticipated at this time.

PROJECT W-062, TANK 104-AP UPGRADES

This double-shell tank (DST) upgrade has been placed on hold due the increase of project costs. The Total Estimated Costs (TEC) of this project is \$2.2 Million which exceeds DOE guidelines for General Plant Projects (GPP). A strategy was adopted to supply additional funding as a "super GPP"; however, this was not supported. Therefore, HQ is proceeding the with having congress reprogram this GPP into a FY 1993 line item. This process may impact vault 103 filling.

HYDROGEN GENERATION

The "Grout Disposal Facility Gas Concentration Report", is being approved within WHC.

A contract has been placed with Argonne National Laboratory to conduct hydrogen generation rate confirmation testing.

Responses to Ecology's grout gas generation comments have been transmitted to RL.

VAULTS 102-105 (PROJECT B-714)

A completion punchlist has been generated. Construction activities will be concluded with WHC acceptance of vaults 102-105 in December 1992.

VAULT 103 CAMPAIGN

Grouting of DST 101-AW has been earmarked for vault 103. This tank has been designated as a "watch list" tank by TWRS. This questions the suitability of this tank for grouting.

Upgrades to DST 104-AP, second grout feed tank are required to support grouting operations. The estimated costs of these upgrades have exceeded the funding limit for General Plant Projects. Prior to commencing work, funds will be required to be reprogrammed by congress into Line Item funding.

MISCELLANEOUS

The dead weight analysis of the Grout Processing Facility (GPF) tower, utilizing a computer model, has been completed. The analysis confirms the structural adequacy of the tower.

Engineering studies are proceeding on proposed FY 1994 GPPs. They are: 1) access to Leachate collection Tank/Mixer Module and 2) Operations/Maintenance Support facility.

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author

Addressee

Correspondence No.

S. H. Wisness, RL

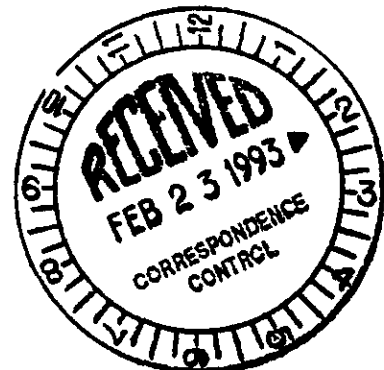
P. T. Day, EPA
D. B. Jansen, Ecology

Incoming: 9302100

Subject: GROUT STATUS REPORT FOR STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

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